PE TITLE: Link 16 Support and Sustainment

	RDT&E BUDGET ITEM J	USTIFIC	CATION	SHEET	(R-2 Ex	(hibit)		DATE		ry 2002
	T ACTIVITY Engineering and Manufacturing Deve	elopment			R AND TITLE <b>4F Link</b> 1	16 Suppo	ort and S	ustainme	ent	
	COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
	Total Program Element (PE) Cost	0	0	44,146	44,186	186,571	265,815	257,912	Continuing	TBD
5049	JINTACCS	0	0	5,726	5,803	19,913	18,191	33,266	Continuing	TBD
5050	TCL System Integration	0	0	23,469	23,471	151,766	232,726	209,765	Continuing	TBD
5051	Family of Interoperable Operational Pictures (FIOP)	0	0	14,951	14,912	14,892	14,898	14,881	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

#### In FY 2003:

- a. #655049, JINTACCS efforts will transfer from PE 0604779F, Tactical Data Link Interoperability, #652189, JINTACCS;
- b. #655050, TDL System Integration efforts will transfer from PE 0604754F, Tactical Data Link Integration, #654749, Link 16 System Integration; and
- c. #655051, Family of Interoperable Operational Pictures (FIOP) efforts will transfer from PE 0604754F, Tactical Data Link Integration, #654992, Family of Interoperable Operational Pictures (FIOP).

This will be done in order to consolidate tactical data link/Link 16 funding and manage tactical data links as an enterprise.

#### (U) A. Mission Description

Tactical Data Links (TDL) are used in a combat environment to exchange information such as messages, data, radar tracks, target information, platform status, imagery, and command assignments. TDLs provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. TDLs are used by the Air Force, Army, Navy, and Marine Corps theater Command and Control (C2) elements, weapons platforms, and sensors. TDLs include but are not limited to: Link-16, Link-11, Situational Awareness Data Link (SADL), Variable Message Format (VMF), Enhanced Position Location Reporting System (EPLRS), and Common Data link (CDL).

Utilization of Link 16 in a joint environment requires the integration of terminals (e.g., Joint Tactical Information Distribution System (JTIDS) or Multifunction

Page 1 of 18 Pages

Exhibit R-2 (PE 0207434F)

#### DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 2002 BUDGET ACTIVITY PE NUMBER AND TITLE 0207434F Link 16 Support and Sustainment 05 - Engineering and Manufacturing Development A. Mission Description Continued Information Distribution System (MIDS)) into these host platforms, and interoperability of Link 16 nets across all deployed joint and allied platforms. The Tactical Data Links (TDL) System Program Office (SPO) performs several cross-platform activities to help ensure proper integration of Link 16 capabilities and interoperability of Link 16 nets. In addition, the SPO is supporting the integration of Link 16 into the Iceland Air Defense System (IADS) and has management responsibility for the Air Force's Air Defense System Integration (ADSI) systems. The Single Integrated Air Picture (SIAP) efforts will lead to the joint development of improvements to TDLs to better support the warfighter by ensuring that the air picture is composed of common, continual, unambiguous, tracks of all airborne objects. The Family of Interoperable Operational Pictures (FIOP) efforts ensure that the total air, sea, and land situational awareness picture is unified and provided to all forces operating within the TDL network. The Joint Interoperability of Tactical Command and Control Systems (JINTACCS) Program ensures platform/system interoperability through the development and management of the joint/combined architecture, tactical information exchange requirements (IERs), interface definitions and protocols, platform/system implementations, employment concepts, and operating procedures. This includes the coordination of all TDL and USMTF message standards configuration management, platform/system interoperability assessments and interoperability certification testing. **B. Budget Activity Justification** This program is in budget activity 5 (Engineering Manufacturing and Development) because it supports development, integration solutions, fielding, operational support activities, and support of special projects. C. Program Change Summary (\$ in Thousands) FY 2001 FY 2002 FY 2003 Total Cost Previous President's Budget 29,715 TBD Appropriated Value Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram e. Rescissions Adjustments to Budget Years Since FY 2002 PBR 14,431

44,146

**TBD** 

Exhibit R-2 (PE 0207434F)

Current Budget Submit/FY 2003 PBR

	RDT&E BUDGET ITEM JUSTIFICATION	ON SHEET (R-2 Exhibit)	DATE February 2002
	GET ACTIVITY  Engineering and Manufacturing Development	PE NUMBER AND TITLE 0207434F Link 16 Support and Susta	inment
(U)	C. Program Change Summary (\$ in Thousands) Continued		
(U)	Significant Program Changes:		
		Page 3 of 18 Pages	Exhibit R-2 (PE 0207434F)

#### DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) February 2002 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 0207434F Link 16 Support and Sustainment 05 - Engineering and Manufacturing Development 5049 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 Cost to **Total Cost** COST (\$ in Thousands) Actual Estimate Estimate Estimate Estimate Estimate Estimate Complete 5049 **JINTACCS** 0 0 5.726 5.803 19.913 18.191 33.266 Continuing TBD

In FY 2003, #655049, JINTACCS efforts transferred from PE 0604779F, Tactical Data Link Interoperability, #652189, JINTACCS.

#### (U) A. Mission Description

The Joint Interoperability of Tactical Command and Control Systems (JINTACCS) Program is a Joint Staff directed program that provides the sole Air Force (AF) activity responsible for ensuring the interoperability of AF Tactical Data Links (TDLs) [including, but not limited to Tactical Digital Information Links (TADILs) and Variable Message Formats (VMF)] and United States Message Text Format (USMTF) systems with the associated Joint and allied/coalition systems. The requirements for the program are delineated in DoDD 4630.5, DoDD 4630.8, CJCSI 6212.01B, and AFI 33-108. The program ensures platform/system interoperability through the development and management of the joint/combined architecture, tactical information exchange requirements (IERs), interface definitions and protocols, platform/system implementations, employment concepts, and operating procedures. This includes the coordination of all TDL and USMTF message standards configuration management, platform/system interoperability assessments and interoperability certification testing. Air Force platforms/systems participating in, and affected by, this program include: Airborne Warning and Control System (AWACS); Airborne Battlefield Command and Control Center (ABCCC); Modular Control Element (MCE); Air Operations Center (AOC); Joint Surveillance Target Attack Radar System (JSTARS); F-15 A/B/C/D/E; F-16 B30/40/50; F-22; A/OA-10; Joint Strike Fighter (JSF); Airborne Laser (ABL); B-1; B-2; B-52; F-117; RC-135; Regional/Sector Air Operations Center (RAOC/SAOC), Command & Control Information Processing System (C2IPS); Space Based Infrared System (SBIRS); Iceland Air Defense System (IADS); Air Support Operations Center (ASOC); and Tactical Air Control Parties (TACPs), Theater Battle Management Corps System (TBMCS), Contingency Automated Theater Automated Planning System (CTAPS), Combat Intelligence System (CIS), Air Defense System Integrator (ADSI), Distributed Common Ground System (DCGS), North American Aerospace Defense Command (NORAD)/United States Space Command (USSPACECOM) Warfighting Support System (N/UWSS), Region/Sector Air Operations Center (R/SAOC) AWACS Digital Information Link, and Global Command and Control System (GCCS)-Air Force (GCSS-AF). The Air Force JINTACCS program supports the Assistant Secretary of Defense (ASD) directive on harmonization of US and NATO messages (e.g., ATO and ACO).

#### (U) FY 2001 (\$ in Thousands)

(U) \$0 No Activity

(U) \$0 Total

Project 5049 Page 4 of 18 Pages Exhibit R-2A (PE 0207434F)

	RDT&I	E BUDGET ITEM JUSTI	IFICATION	SHEET (	R-2A Exh	nibit)		DATE February	y 2002
	GET ACTIVITY		,	PE NUMBER					PROJECT
05 -	· Engineering an	d Manufacturing Developr	ment	0207434	F Link 16	Support a	nd Sustair	nment	5049
( <b>U</b> )	A. Mission Descript	ion Continued							
(U)	FY 2002 (\$ in Thous	<del></del>							
(U) (U)	\$0 \$0	No Activity Total							
(U)	FY 2003 (\$ in Thous	ands)							
(U)	\$660	Continue Interoperability Certificat	tion Testing. Spe	ecific platforms	will be determ	ined based on	Link 16 mess	age implementation	ı, software
(U)	\$1,552	upgrade, and system modification Continue US Message Text Format	s Management a	nd Undates					
(0)	¥1,002	- Support Joint, Allied/Coalition me	eetings and work	ing groups					
(II)	\$3,514	- Support technology maturation fo Continue Tactical Data Link Mana	•						
(0)	ψ3,314	- Support multi TADIL and VMF	meetings and wo	rking groups					
		<ul><li>Consultations regarding impleme</li><li>Consultations regarding software</li></ul>						TIII ID	
(U)	\$5,726	Total	updates and inte	roperaomity wit	ii uie 1-13C, L	-3, E-6, ADCC	.c, ckc/cki	z, TOLIF	
(U)	B. Project Change S	Summary							
	In FY 2003, #655049	9, JINTACCS efforts transferred from	n PE 0604779F,	Tactical Data L	nk Interoperal	oility, #652189	, JINTACCS		
(U)	C. Other Program F	Yunding Summary (\$ in Thousands) FY 2001 FY 2002	=	FY 2004	FY 2005	FY 2006	FY 2007	Cost to	Total Cost
		Actual Estimate		Estimate	Estimate	Estimate	Estimate	<u>Complete</u>	<u>Total Cost</u>
(U)	AF RDT&E								
(U)	Other APPN  D. Apprigition Stands								
( <b>U</b> )	<b>D.</b> Acquisition Strate As the Air Force lead	agent for a jointly directed program,	JINTACCS prov	rides level of ef	ort technical s	upport for incr	easing interop	perability of AF pro	grams through
	message text and data	link standards implementation.	_					· · · · · · · · ·	
(U)	E. Schedule Profile			EX 200	1	T75.7	2002	1737	2002
_	trainat FO40		D.	FY 200	_	<u>FY</u>	2002	<u>FY</u> Exhibit R-2A (P	2003 E 0207424E)
	roject 5049		Paş	ge 5 of 18 Pages				EXHIDIL K-ZA (P	□ UZU1434F)

	RDT&E BUDGET ITEM JUSTIFICATION	ON S	SHEET	Γ (R-	2A Ex	(hibit)	)		DAT		bruary	2002	
	GET ACTIVITY		PE NUM									PRO	IECT
05	- Engineering and Manufacturing Development		02074	134F	Link 1	6 Sup	ort a	nd Sus	stainm	nent		504	9
(U)	E. Schedule Profile Continued												
			FY	<u>2001</u>			FY	2002			FY?	2003	
		1	2	3	4	1	2	3	4	1	2	3	4
(U)	F-16 - OFP M-3 baseline implementation and interoperability	X											
(U)	E-8 - Complete ASU Spiral 1 Implementation/Interoperability	X											
(U)	AOC - Complete baseline Implementation/Interoperability	X											
(U)	F-15C - Interoperability consultation for Software upgrades.	X											
(U)	F-16 - Interoperability consultation for Software upgrades.	X											
(U)	E-3 - Interoperability consultation for Software upgrades.	X											
(U)	E-8 - Interoperability consultation for Software upgrades.	X											
(U)	ABCCC - Interoperability consultation for Software upgrades.	X											
(U)	CRC/CRE - Interoperability consultation for Software upgrades.	X											
(U)	AOC - Interoperability consultation for Software upgrades.	X											
(U)	F-15E - Interoperability consultation for Software upgrades.	X											
(U)	ABL - Interoperability consultation for Software upgrades.	X											
(U)	B-1 - Interoperability consultation for Software upgrades.	X											
(U)	B-2 - Interoperability consultation for Software upgrades.	X											
(U)	B-52 - Interoperability consultation for Software upgrades.					X							
(U)	F-22 - Interoperability consultation for Software upgrades.					X							
(U)	F-117 - Interoperability consultation for Software upgrades.					X							
(U)	Joint StrikeFighter (JSF) - Interoperability consultation for Software						X						
(U)	R/SAOC - Interoperability consultation for Software upgrades.				X								
(U)	IADS - Interoperability consultation for Software upgrades.						X						
(U)	TACP/ASOC - Interoperability consultation for Software upgrades.						X						
(U)	Interoperability Certification Testing	X											
(U)	(Passed Joint and CAF Interoperability)					X							
(U)	- MCE P3I												
(U)	CAF						X						
(U)	JOINT							X					
	Project 5049	Dago	6 of 18 P	2000					_	vhihit F	P-2Δ (DI	E 02074	3/F)

	RDT&E BUDGET ITEM JUSTIFICAT	ION S	SHEE	Γ (R-2	2A Ex	(hibit)	)		DAT		bruary	/ 2002	
BUD	GET ACTIVITY		PE NUM	IBER ANI	D TITLE				•			PRO	JECT
05 -	Engineering and Manufacturing Development		02074	134F	Link 1	6 Sup	port aı	nd Sus	stainn	nent		504	19
(U)	E. Schedule Profile Continued												
, ,			FY	2001			FY:	2002			FY	2003	
		1	2	3	4	1	2	3	4	1	2	3	4
(U)	- JSTARS												
(U)	CAF								X				
(U)	JOINT							X					
(U)	- E-3 AWACS			X									
(U)	CAF					X							
(U)	JOINT						X						
(U)	- F-15C	X											
(U)	CAF				X								
(U)	JOINT				X								
(U)	- F-15E	X											
(U)	CAF				X								
(U)	JOINT							X					
(U)	- IADS					X							
(U)	CAF							X					
(U)	JOINT					X							
(U)	-ABCCC			X									
(U)	CAF				X								
(U)	JOINT						X						
(U)	- RADIL			X									
(U)	CAF				X								
(U)	JOINT						X						
(U)	- ABL									X			
(U)	CAF								X				
(U)	JOINT									X			
(U)	- F-16					X							
(U)	CAF							X					
P	Project 5049	Page	7 of 18 P	ages					I	Exhibit F	R-2A (P	E 02074	134F)

	RDT&E BUDGET ITEM JUSTIFICAT		SHEE	T /D	24 Ev	(hihit)	\		DAT			2222	
		ION .				(IIIDIL)	<u> </u>			Fe	bruary	/ 2002	
	GET ACTIVITY				ND TITLE	0.0			- <b>4</b> - •	4			JECT
05	- Engineering and Manufacturing Development		0207	434F	Link 1	6 Sup	port a	na Su	stainn	nent		504	19
(U)	E. Schedule Profile Continued												
				2001				2002				2003	
		1	2	3	4	1	2	3	4	1	2	3	4
(U)	JOINT					X							
(U)	- TACP						X						
(U)	CAF							X					
(U)	JOINT								X				
(U)	- ADSI				X								
(U)	CAF				X								
(U)	JOINT								X				
(U)	OPFAC INSTALL/INTEGRATION							X					
(U)	- F-15 E COMPLETE						X						
	* Denotes completed event												
	X Denotes planned event												
ı													
		-	0.610=						_	- , ,, ,, -		<b>-</b> 000-	١٥ ١٦)
	Project 5049	Page	8 of 18 I	Pages					E	xhibit F	K-2A (P	E 02074	134F)

	RDT&E PROG	RAM ELE	MENT/PF	ROJECT CO	OST BF	REAKDOV	VN (R-3)		DATE <b>F</b> (	ebruary 2	002
BUD	GET ACTIVITY				PE NUMB	ER AND TITLE			-		PROJECT
05 -	Engineering and Ma	nufacturing	Developm	ent	020743	34F Link 1	6 Support	and Sust	ainment		5049
( <b>U</b> )	A. Project Cost Breakdown	n (\$ in Thousand	ds)								
(U) (U) (U) (U) (U)	Interoperability Certification US Message Text Formats M Tactical Data Links Manager Total	<b>L</b> anagement					FY 2	<u>2001</u>	FY 20	<u>02</u>	FY 2003 660 1,552 3,514 5,726
(U)	B. Budget Acquisition History	ory and Plannin	g Information	ı (\$ in Thousand	<u>ls)</u>						
(U)	Performing Organizations: Contractor or Government Performing Activity Product Development Organi Support and Management Or MITRE B3H COMPTEK HTI PGM OFFICE AF Participating Test Unit (PTU)	Contract Method/Type or Funding Vehicle izations rganizations CPAF CPAF CPAF CPAF Various PO/616	Award or Obligation Date  OCT 72 MAY 97 OCT 92 OCT 94 Various OCT 97	Performing Activity EAC	Project Office EAC	Total Prior to FY 2001	Budget FY 2001	Budget FY 2002	Budget FY 2003 3,011 1,925 0 0 340 450	Budget to Complete Continuing Continuing Continuing Continuing	Total Program  TBD TBD 0 TBD TBD TBD TBD
	Subtotals Subtotal Product Developme Subtotal Support and Manage Subtotal Test and Evaluation Total Project	nt ement				Total Prior to FY 2001	Budget FY 2001	Budget FY 2002	Budget FY 2003 5,726 5,726	Budget to Complete TBD	
P	roject 5049			Page	9 of 18 Pag	ges			Exhib	it R-3 (PE 0	207434F)

RDT&E BUDGET ITEM JU	JSTIFIC.	ATION S	SHEET (	(R-2A E	xhibit)		DATE		ry 2002
BUDGET ACTIVITY  05 - Engineering and Manufacturing Deve			R AND TITLE <b>4F Link</b> '		ort and S	ustainme	ent	PROJECT <b>5050</b>	
COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
5050 TCL System Integration	0	0	23,469	23,471	151,766	232,726	209,765	Continuing	TBD

In FY03, #655050, TDL System Integration includes efforts transferred from PE 0604754F, Tactical Data Link Integration, #654749, Link 16 System Integration.

#### (U) A. Mission Description

Tactical Data Links (TDLs) are used in a combat environment to exchange information such as messages, data, radar tracks, target information, platform status, imagery, and command assignments. TDLs provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. TDLs are used by the Air Force, Army, Navy, and Marine Corps theater Command and Control (C2) elements, weapons platforms, and sensors. TDLs include but are not limited to: Link 16, Link 11, Situational Awareness Data Link (SADL), Variable Message Format (VMF), Enhanced Position Location Reporting System (EPLRS), and Common Data Link (CDL).

The number of Air Force platforms hosting TDLs are expanding from C2 aircraft (E-3, E-8, etc.) into the fighter, bomber, sensor, tanker, airlift and other tactical fleets (F-15, F-16, F-22, RJ, ABCCC, B-1, B-2, B-52, etc.). Utilization of TDLs in a joint environment requires the integration of terminals into these host platforms and interoperability of TDL networks across all deployed joint and allied platforms. Cross-platform activities performed by the Tactical Data Links System Program Office (SPO) include: integration efforts encompassing hardware, software, operational, and logistics development, certification of individual TDL implementations to joint and allied standards, establishment of Service wide net management procedures and operations, system wide enhancements and improvements, and test and sustainment activities. In addition, the SPO is supporting the integration of TDL into the Iceland Air Defense System (IADS) and has management responsibility for the Air Force's Air Defense System Integrator (ADSI). The Single Integrated Air Picture (SIAP) efforts will lead to the joint development of near real-time and real-time data from multiple sensors and TDLs. This will enhance the air picture provided to the warfighter by ensuring a common, continual, and unambiguous, tracks of all airborne objects.

(U) FY 2001 (\$ in Thousands)

(U) \$0 No Activity

(U) \$0 Total

(U) FY 2002 (\$ in Thousands)

(U) \$0 No Activity

(U) \$0 Total

Project 5050 Page 10 of 18 Pages Exhibit R-2A (PE 0207434F

	RDT&E	BUDGET ITEM	JUSTIF	CATION	SHEET (	R-2A Exh	nibit)		Februar	y 2002
	SET ACTIVITY  Engineering an	d Manufacturing D	evelopme	ent	PE NUMBER <b>0207434</b>		Support a	nd Sustaiı	nment	PROJECT <b>5050</b>
(U)	A. Mission Descripti	ion Continued								
(U)	FY 2003 (\$ in Thousa	ands)								
(U)	\$5,812	CONTINUE LINK 16 I	NTEGRATIO	N: Efforts asso	ociated with ha	ordware and so	oftware integrat	tion of Link 10	6 terminals into Air	Force
		platforms.	• • • •		1.6 . 1		. C 11	1 .	1 2 1	. 1 1
		(U) On-going engine data link demonstration		ion support to p	olatforms; tech	nical improvei	ments; field su	pport; technica	al assistance to rela	ited tactical
$\alpha$	\$2,310	CONTINUE LINK 16 E		T: Efforts ass	ociated with fi	elding termina	ls.			
(0)	<b>4-,</b> 810	(U) Support Operation				-		pport; fielding	/non-recurring train	ning; network
		support; crypto support;			11	nk tool suppor	t.		_	
(U)	\$287	CONTINUED TACTIC			ΓΙVITY:					
		(U) Link 16/other TI	•	/Interfaces.						
(U)	\$247	(U) ADSI Managem CONTINUED SYSTEM		SUPPORT:	Cross-platform	test and evalu	nation and syst	em level testir	ισ	
(U)	\$14,813	CONTINUED SINGLE			-		sacron and syst	om to vor tostir	-6.	
` '		(U) Continued AF fur	ding of Single	Integrated Air	Picture (SIAI	effort.				
		(U) AF system engine	ering and infr	astructure cost	to support SIA	P recommend	ations.			
(U)	\$23,469	Total								
<b>(U)</b>	B. Project Change S	<del></del>								
		g for the SIAP effort is co			unding for the	remaining TD	L System Integ	gration efforts	is contained in PE	0604754F,
		tegration, #654749, Link	•	egration.						
( <b>U</b> )	C. Other Program F	unding Summary (\$ in T		EW 2002	EX. 2004	EW 2005	EX. 2006	EV 2005	G	T . 1 C
		FY 2001	FY 2002 Estimate	FY 2003	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
(U)	AF RDT&E	<u>Actual</u>	<u>Esumate</u>	<u>Estimate</u>	<u>Esumate</u>	<u>Esumate</u>	Esumate	<u>Estimate</u>	Complete	
(U)	Other APPN			6,291	8,185	8,111	8,389	8,560	Continuing	Continuing
(U)	APPN 10, F-16 Link	16 (PE		36,563	27,962	22,434	22,784	20,476	Continuing	Continuing
	27434)									
Р	roject 5050			Page	e 11 of 18 Page	es			Exhibit R-2A (P	E 0207434F)

	RDT&E BUDGET ITEM JUSTIFICATION	ON S	HEET	(R-2	2A Ex	hibit)	)		DATE		oruary	2002	
BUD	GET ACTIVITY		PE NUM	BER AND	TITLE							PRO	IECT
05 -	Engineering and Manufacturing Development		02074	34F I	_ink 16	6 Sup	port a	nd Sust	ainm	ent		505	0
(U)	D. Acquisition Strategy The Air Force Tactical Data Links System Program Office (SPO) provand ensures that Link 16 is procured and maintained as a joint, end-to-(Fighter Data Link (FDL) and Low Volume Terminal (LVT) derivative	end, con	nmand ar	nd contr	ol systen	n. Host	platform	ıs program	and bu				
(U)	E. Schedule Profile		EX.	2001			EV	2002			EX	2002	
		1	<u>F1.</u>	2 <u>001</u> 3	4	1	<u>FY</u> 2	2 <u>002</u> 3	4	1	<u>F1</u>	2003 3	4
(II)	Contract Milestones	1	2	3	4	1	2	3	4	1	2	3	4
(U)	- FDL Full Rate Production Award			*									
(U)	- MIDS LVT - F-16 Production Award												
` ′	Host Platform Integration Start												
(U)	- F-16 (thru FY04)												
(U)	- Compass Call (thru FY02)								X				
(U)	- Airborne Laser (ABL) (thru FY03)								11	X			
(U)	- B-2 EMD								X				
(U)	Command and Control Platforms												
(U)	- AWACS Link 16 Qual Complete	*											
(U)	Complete Baseline Integration												
(U)	- MCE (P3I)												
(U)	- IADS installation start				X								
	* Denotes completed events												
	X Denotes planned events												
	Project 5050	Paga 1	2 of 18 P	Parrec					E,	vhihit P	-2A (DI	E 02074	34F)

	RDT&E PROG	RAM ELE	MENT/PF	OJECT CO	OST BF	REAKDOV	WN (R-3)		DATE <b>F</b>	ebruary 2	002
	GET ACTIVITY					ER AND TITLE			-		PROJECT
05 -	· Engineering and Man	ufacturing	Developm	ent	020743	34F Link 1	6 Support	and Sust	ainment		5050
(U)	A. Project Cost Breakdown	(\$ in Thousand	ds)								
(U) (U) (U) (U) (U) (U) (U)	Link 16 Integration EMD Activities Tactical Data Link Connectiv System Testing and Support Single Integrated Air Picture Total	ity					FY 2	<u>2001</u>	FY 20	<u>002</u>	FY 2003 5,812 2,310 287 247 14,813 23,469
(U)	B. Budget Acquisition Histor	<u>ry and Plannin</u>	g Information	ı (\$ in Thousand	<u>ls</u> )						
(U)	Performing Organizations: Contractor or Government Performing Activity Product Development Organiz Data Link Solutions Support and Management Org ESC Contractor Support MITRE Single Integrated Air Picture Test and Evaluation Organiza Eglin AFB	MIPR <u>ganizations</u> Various  Various	Award or Obligation Date  TBD  Various  TBD  Various	Performing Activity EAC	Project Office EAC	Total Prior to FY 2001	Budget FY 2001	Budget FY 2002	Budget FY 2003 669 432 3,006 4,228 14,813	Budget to Complete Continuing Continuing Continuing Continuing Continuing Continuing	Total Program TBD TBD TBD TBD TBD
P	roject 5050			Page	13 of 18 Pa	iges			Exhil	oit R-3 (PE 0	207434F)

RDT&E PROGRAM ELEMENT/PROJE	CT COST BREAKDOV	VN (R-3)		DATE <b>F</b> 6	ebruary 20	02
BUDGET ACTIVITY	PE NUMBER AND TITLE				F	PROJECT
05 - Engineering and Manufacturing Development	0207434F Link 1	6 Support	and Sust	ainment	į	5050
Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation Total Project	0207434F Link 10  Total Prior to FY 2001	Budget FY 2001	Budget FY 2002	Budget FY 2003 669 22,479 321 23,469		Total Program TBC TBC TBC TBC
Project 5050	Page 14 of 18 Pages			Exhib	it R-3 (PE 02	07434F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)									DATE	DATE February 2002			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development						PE NUMBER AND TITLE 0207434F Link 16 Support and Sustainment							
	COST (	\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost		
5051	Family of Interop	perable Operational Pictures (FIOP)	0	0	14,951	14,912	14,892	14,898	14,881	Continuing	TBD		
		ily of Interoperable Operational Pal Pictures (FIOP), in order to cons	•	*							•		
(U) A. Mission Description  This funding and schedule will support development, integration, operational fielding and migration of capability to identified systems of record for the Family of Interoperable Operational Pictures (FIOP) initiative. The objective is to 'provide an all-source picture of the battle space containing actionable, decision-quality, information to the warfighter through a fusion of existing databases' Stove-piped systems will be identified and 'linked' via an improved web-enabled Common Operational Picture (COP).													
(U)	FY 2001 (\$ in Tho	<del></del>											
(U) (U)	\$0 \$0	No Activity Total											
(U)													
(U)	\$0	No Activity											
(U)	\$0	Total											
(U) (U)	\$2,200 REQUIREMENTS & ENGINEERING MANAGEMENT:												
(U)	\$7,275	(U) Provide requirement management (\$300K x 4 services: \$1,200K), AF Exec Agent (\$400K), and DISA Mgt (\$600K).  IMPLEMENTATION OF EXECUTION MANAGEMENT CAPABILITY: (U) Provide integration support, execution management, and visualization capabilities.											
(U)	\$2,889	TACTICAL COE WORKSTATION DEVELOPMENT:(U) Migrate USMC/USA C2PC to COP infrastructure. Provide integration support, engineering, hardware/software, and travel.											
(U)	\$2,587	COE SUPPORT FOR JOINT VARIABLE MSG FORMAT:(U) Implement COE processing of JVMF messages among USMC/USN/USA with scalable COP infrastructure in limited bandwidth environments. Provide integration support, engineering, hardware/software, and travel											
Р	roject 5051			Page	15 of 18 Pag	ges			E	xhibit R-2A	(PE 0207434F)		

#### DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) February 2002 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 0207434F Link 16 Support and Sustainment 05 - Engineering and Manufacturing Development 5051 (U) A. Mission Description Continued FY 2003 (\$ in Thousands) Continued (U) \$14.951 Total **B. Project Change Summary** This funding profile and schedule reflects received program scope. Also, prior to FY03, funding for the FIOP effort is contained in PE 0604754F, Tactical Data Link Integration, #654992, Family of Interoperable Operational Pictures (FIOP). (U) C. Other Program Funding Summary (\$ in Thousands) FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2007 FY 2006 Cost to **Total Cost Estimate** Estimate Estimate Complete Actual **Estimate Estimate** Estimate (U) AF RDT&E (U) Other APPN (U) D. Acquisition Strategy Implement spiral develop, integration and sustain web-enabled COP capabilities that are interoperable with existing Service systems. Identify execution-level requirements and candidate solutions, evaluate those potential solutions against the stated requirements, and develop COE based, spiral developed capabilities in 6 month increments. FIOP developed capabilities will be tested and evaluated for operational utility in Service test facilities and at operational locations. FIOP capabilities will then be migrated to Service SOR systems for sustainment. (U) E. Schedule Profile 4 (U) Rqmts/Engr Management X (U) Execution Management Capability X (U) Tactical COE Workstation Development X (U) COE Support for Joint VMF X \* Denotes completed event X Denotes planned event Exhibit R-2A (PE 0207434F) Project 5051 Page 16 of 18 Pages

	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									DATE <b>February 2002</b>			
BUDGET ACTIVITY						PE NUMBER AND TITLE				PROJECT			
05 -	05 - Engineering and Manufacturing Development					0207434F Link 16 Support and Susta			ainment 5051				
(U)	A. Project Cost Breakdown												
(U) (U) (U) (U) (U)	REQUIREMENTS & ENGINEERING MANAGEMENT EXECUTION MANAGEMENT CAPABILITY TACTICAL COE WORKSTATION DEVELOPMENT COE SUPPORT FOR JOINT VARIABLE MESSAGE FORMAT Total					FY 2001			FY 20	FY 2003 2,200 7,275 2,889 2,587 14,951			
(U)	B. Budget Acquisition Histo	<u>ry and Plannin</u>	g Information	ı (\$ in Thousand	<u>ls)</u>								
(U)	Performing Organizations: Contractor or Government Performing Activity Product Development Organiz Execution Management Contractor Tactical Coe WS Contractor JVMF Contractor Support and Management Organiz Multi-Service Contractor Support MITRE Test and Evaluation Organiza	TBD TBD TBD ganizations Various FPLOE	Award or Obligation Date  TBD  TBD TBD  Various  Various	Performing Activity EAC	Project Office EAC	Total Prior to FY 2001	Budget FY 2001	Budget FY 2002	Budget FY 2003 6,877 2,730 2,480 2,364 500	Budget to Complete Continuing Continuing Continuing Continuing	Program TBD TBD TBD TBD		
P	roject 5051			Page	17 of 18 Pa	ges			Exhib	oit R-3 (PE (	)207434F)		

RDT&E PROGRAM ELEMENT/PROJEC		DATE February 2002				
BUDGET ACTIVITY	PE NUMBER AND TITLE					
05 - Engineering and Manufacturing Development	0207434F Link 1	ainment 5051				
Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation Total Project	O207434F Link 10 Total Prior to FY 2001	Budget FY 2001	Budget FY 2002	Budget FY 2003 12,087 2,864 14,951	Budget to Complete TBD TBD TBD	Total Program TBD TBD TBD
Project 5051	Page 18 of 18 Pages			Exhib	it R-3 (PE 02	07434F)